

**USING ITEM-BASED COLLABORATIVE FILTERING RECOMMENDATION
ALGORITHM FOR GRADUATE SCHOOL LIBRARY**

A THESIS

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College of Computer Studies Graduate Programs

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By

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ABSTRACT

The Henry Luce Library (HLL) is a library system located in the campus of the Central Philippine University (CPU) in Jaro, Iloilo City, Philippines. The library is vital to support and strengthen the educational quality. Over time, a library has been the source of information through books, journals, magazine and other relevant materials that supports any type of learning processes. Nowadays, technology can help the community sift through all the available information that can be valuable and useful.

The Using Item-Based Collaborative Filtering Recommendation Algorithm for Graduate School Library System is designed for CPU Graduate School Library to enhance the current library operations. The system used an Item-based Collaborative Filtering Recommendation Algorithm to improve library material usage by recommending title to other patron's that has similar taste.

The algorithm used rating scale and recommendations for library patrons are computed through Pearson's correlation. The system supports the following features: housekeeping operations such as cataloging, inventory, and circulation services.

After thorough investigation of the problem cited in chapter one solution where created and implemented through Evolutionary prototype methodology. It has been proven that the system answers the problem and improves the process of the Graduate School Library.